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## NACA ANNOUNCES START OF NEW RESEARCH PROGRAM

The need for more detailed information about gust-meteorological conditions to be found at high altitude, as high as 50,000 feet, has resulted in the inauguration of an expanded research program to provide the needed data, Dr. Hugh L. Dryden, Director of the National Advisory Committee for Aeronautics, announced today.

"Tomorrow's jet transports will be flying air routes girding the earth", Dr. Dryden said. "This they will do at altitudes far higher than presently used except by a few military aircraft. The availability of a new type of airplane, the Lockheed U=2, makes possible obtaining the needed data in an economical and expeditious manner."

The Lockheed airplane is powered by a single Pratt & Whitney J-57 turbo-jet engine and is expected to be able to reach 10-mile-high altitudes as a matter of routine, according to the NACA. A limited number of the Lockheed airplanes is being made available for the expanded NACA program by the USAF.

The program is along the lines recommended by the Gust Loads Research Panel of the NACA's technical Subcommittee on Aircraft Loads. In its research programs, the NACA is charged with coordination of aeronautical research, and with taking action necessary to avoid undesirable duplication of effort,

Among specific research goals will be more precise information about clear air turbulence, convective clouds, wind shear, and the jet stream.

Richard V. Rhode, Assistant Director for Research of the NACA, said that

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as a result of information so to be gained, tomorrow's air travelers might expect degrees of speed, safety and comfort beyond hope of the air transport operators.

"The program would not have been possible," Mr. Rhode said, "without the ability of American scientific efforts to join forces."

Actually, according to Mr. Rhode, success of the program depends in large degree upon the logistical and technical support which the Air Weather Service of the USAF will be providing. USAF facilities overseas will be used as the program gets underway, to enable the gathering of research information necessary to reflect accurately conditions along the high-altitude air routes of tomorrow in many parts of the world. The data gathering flights will also be used, at the request of the USAF, to obtain information about cosmic rays and the concentration of certain elements in the atmosphere including ozone and water vapor.

The first data, covering conditions in the Rocky Mountain area, are being obtained from flights made from Mr. Rhode noted that the data would be equally useful to technical experts of the Air Weather Service in expanding their knowledge of meteorological conditions at high altitude.

(Suggestion: As close pp, use: Members of the NACA Subcommittee on Loads, Gust Loads Research Panel, include: -- and then list.)

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